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May 4, 2022

Docket Nos.: 50-321

NL-22-0315

U. S. Nuclear Regulatory Commission  
ATTN: Document Control Desk  
Washington, D. C. 20555-0001

Edwin I. Hatch Nuclear Plant - Unit 1  
Technical Specification 5.6.6 Post Accident Monitoring Instrumentation Report for  
Drywell Temperature Indicator Inoperable for Greater than 30 Days

Ladies and Gentlemen:

In accordance with Edwin I. Hatch Nuclear Plant - Unit 1 Technical Specifications Limiting Condition for Operation 3.3.3.1, Required Action B.1, Southern Nuclear Operating Company (SNC) is submitting this report related to post accident monitoring instrumentation.

This letter contains no regulatory commitments. If you have any questions, please contact Jimmy Collins at 912.453.2342.

Respectfully submitted,

E. D. Dean  
Site Vice President, Plant Hatch

EDD/jmh

Enclosure: Post Accident Monitoring Instrumentation Report

Cc: Regional Administrator, Region II  
NRR Project Manager – Hatch  
Senior Resident Inspector – Hatch  
RTYPE: CHA02.004

**NL-22-0315**

**Edwin I. Hatch Nuclear Plant – Unit 1  
Technical Specification 5.6.6 Post Accident Monitoring  
Instrumentation Report for  
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**Enclosure**

**Post Accident Monitoring Instrumentation Report**

Enclosure to NL-22-0315  
Post Accident Monitoring Instrumentation Report

In accordance with Edwin I. Hatch Nuclear Plant (HNP) Unit 1 Technical Specification (TS) 5.6.6 a report is required to be submitted within 14 days upon entering LCO 3.3.3.1 Condition B. TS 5.6.6 states that the report shall outline the preplanned alternate method of monitoring, the cause of the inoperability, and the plans and schedule for restoring the channel to operable status.

**Description of Condition**

On March 30, 2022, while conducting operator rounds, it was noticed a local Drywell Temperature Element (TE), 1T47N003, was reading outside the acceptance criteria. Subsequently, the related channel was declared inoperable and Condition A of LCO 3.3.3.1, "Post Accident Monitoring Instrumentation" was entered. The Completion Time (CT) of Condition A is 30 days and expired on April 29, 2022. HNP has been unable to return the channel to operable status prior to the Condition A CT and is thus now in LCO Condition B which requires submittal of this report in accordance with TS 5.6.6 within 14 days.

**Preplanned Alternate Method of Monitoring**

There are thirteen TE's in the drywell used to monitor individual temperatures at various levels along with the drywell bulk average temperature. With TE 1T47N003 inoperable, there remain twelve operable TE's that will continue to be monitored, including one, 1T47N009, on the same elevation as 1T47N003. These other TE's are indicating normal, historical temperatures. These TE's are monitored on operator rounds and automatically by recorders in the control room. Drywell temperatures can be reliably monitored by the other twelve drywell TE's even with 1T47N003 inoperable. Appropriate actions are procedurally captured and will be taken if an increase is noted on any TE.

**Cause of Inoperability**

During operator rounds, TE 1T47N003 was found to be trending up approximately 1-1.5°F per day and eventually failed upscale. All other drywell temperature indications remained stable, including TE 1T47N009 which is on the same elevation as TE 1T47N003. Engineering and I&C performed troubleshooting activities to investigate the cause and to ensure there was not an actual drywell temperature rise. Historical temperature trend data shows that TE 1T47N003 and 1T47N009 have historically tracked each other within an 8–10 degree difference in temperature until TE 1T47N003 recently began to deviate from TE 1T47N009. Additionally, drywell wide range radiation monitor recorder data was reviewed to identify if there were any increases in radiation correlated with the perceived increase in temperature which would be indicative of a steam leak. These trends were found to be within normal bands. Considering the above information, it has been determined that the temperature trend seen on TE 1T47N003 only, and not on any other drywell TEs, would not be indicative of a genuine rise in drywell temperature but rather a failed individual TE. Based on this, TE 1T47N003 has failed and is inaccurate.

**Plans and Schedule for Restoring the Instrument to Operable**

TE 1T47N003 is located in the drywell which cannot be accessed while at power. Therefore, TE 1T47N003 cannot be repaired until entry into the drywell can be made. Repair activities will be completed during the H1R31 refueling outage (February 2024). If, however, Unit 1 were to be shut down due to a forced outage prior to H1R31, this work is in the required work scope. This work will replace or repair TE 1T47N003 and will restore normal drywell temperature monitoring to operable status.